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DERWENT-ACC-NO: 1988-148897
DERWENT-WEEK: 198822

TITLE: DNA encoding human gastric inhibitory polypeptide precursor - used as probe for diagnosis of diabetes and for producing polypeptide(s) for diabetes treatment

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PATENT-ASSIGNEE:

ASSIGNEE	CODE
SANWA KAGAKU KENKYUSHO CO	SANW

PRIORITY-DATA:
1986JP-0282812 November 27, 1986

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 269072 A	June 1, 1988	E	012	N/A
DE 3781865 G	October 29, 1992	N/A	000	C12N015/00
EP 269072 B1	September 23, 1992	E	018	C12N015/00
JP 01153092 A	June 15, 1989	N/A	000	N/A

DESIGNATED-STATES: CH DE FR GB IT LI CH DE FR GB IT LI

CITED-DOCUMENTS:4.Jnl.Ref; A3...8924 ; No-SR.Pub

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
EP 269072A	November 24, 1987	1987EP-0117325	N/A
DE 3781865G	November 24, 1987	1987DE-3781865	N/A
DE 3781865G	November 24, 1987	1987EP-0117325	N/A
DE 3781865G	N/A	EP 269072	Based on
EP 269072B1	November 24, 1987	1987EP-0117325	N/A
JP01153092A	November 27, 1986	1986JP-0282812	N/A

INT-CL (IPC): C07H 21/04; C12N 15/00; C12P 21/02

ABSTRACTED-PUB-NO: DE 3781865G

BASIC-ABSTRACT:

A cloned single-strand DNA comprising 460 nucleotides which encodes human gastric inhibitory polypeptide (GIP) precursor, or a cloned double-strand DNA consisting of the single-strand DNA and its complementar y single-strand DNA is claimed.

USE/ADVANTAGE - The single-strand DNA encoding human GIP or a fragment may be used as a probe for diagnosis at gene level of diabetes. A fragment of the DNA which encodes an amino acid sequence other than GIP may be used to search for noval physiologically active peptides. The GIP precursor, GIP or other physiologically active substances can be produced in large amts by transforming a microorganism or eukaryotic cell with a plasmid contg. integrated double-strand DNA or a fragment. GIP accelerates gastric juice secretion and insulin secretion and may be used for treating certain diabetes.
ABSTRACTED-PUB-NO:

EP 269072A
EQUIVALENT-ABSTRACTS:

A cloned single-strand DNA comprising 460 nucleotides which encodes human gastric inhibitory polypeptide (GIP) precursor, or a cloned double-strand DNA consisting of the single-strand DNA and its complementar y single-strand DNA is claimed.
USE/ADVANTAGE - The single-strand DNA encoding human GIP or a fragment may be used as a probe for diagnosis at gene level of diabetes.

A fragment of the DNA which encodes an amino acid sequence other than GIP may be used to search for noval physiologically active peptides.

The GIP precursor, GIP or other physiologically active substances can be produced in large amts by transforming a microorganism or eukaryotic cell with a plasmid contg. integrated double-strand DNA or a fragment.

GIP accelerates gastric juice secretion and insulin secretion and may be used for treating certain diabetes.

EP 269072B

A cloned single-stranded DNA encoding human gastric inhibitory polypeptide precursor which has a single open reading frame comprising 459 deoxyribonucleotides and consisting essentially of the sequence of 153 bases wherein A, C, G, and T are, respectively, the deoxyribonucleo tide having an adenine, cytosine, guanine or thymine base and the sequence is given as that of each codon encoding a specified amino acid, or any other nucleotide sequence with degeneracy to said sequence, or a double-stranded DNA consisting of said single-stranded DNA and its complementary single-stranded DNA.

CHOSEN-DRAWING: Dwg.0/0 Dwg.0/3

TITLE-TERMS: DNA ENCODE HUMAN GASTRIC INHIBIT POLYPEPTIDE PRECURSOR PROBE DIAGNOSE DIABETES PRODUCE POLYPEPTIDE DIABETES TREAT

ADDL-INDEXING-TERMS:
DEOXYRIBONUCLEIC ACID

DERWENT-CLASS: B04 D16

CPI-CODES: B04-B04A1; B04-C01; B12-H05; B12-J01; B12-K04A; D05-C11; D05-H03B; D05-H09; D05-H12;

CHEMICAL-CODES:

Chemical Indexing M2 *01*
Fragmentation Code
M423 M710 M903 N135 Q233 V753
Registry Numbers
3102R 1678D

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1988-066305